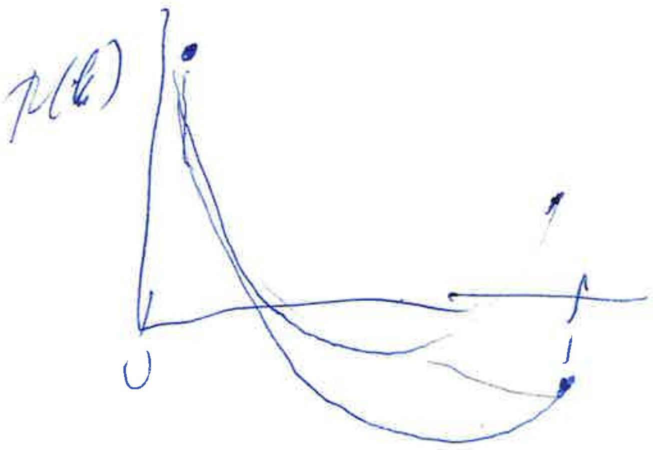
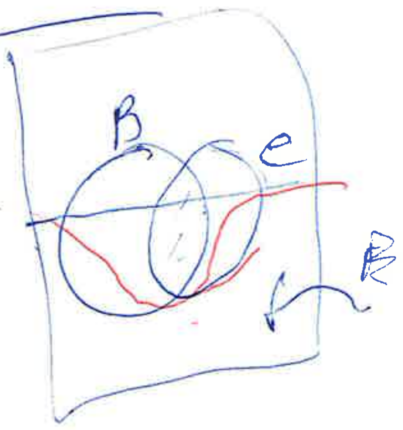


$p_t = p_t x + q(1-x)$

$$\frac{P(B \& C)}{P(B)P(C)}$$



ε' da the ε''

ε [illegible] [illegible] [illegible].

So we require

$$\frac{1}{AB + \varepsilon(1-AB)} = \frac{A + k(1-A)}{AB + k(1-AB)} \times \frac{B + k(1-B)}{A + B + k(1-AB)}$$

write $\lambda = \Big(\qquad \Big)$

For all cases always close. ε to make this true:

$$\varepsilon = P(~~e \mid \neg B \wedge \neg C \wedge u~~) \; P(e \mid \neg(B \wedge C)) = P(e \mid \neg B \vee \neg C)$$

$$k = P(e \mid C \wedge \neg B \wedge u)$$
$$= P(e \mid \neg C \wedge u) *$$
$$= P(e \mid \neg C \wedge B \wedge u)$$
$$= P(e \mid \neg B \wedge u)$$

$$\overset{k}{P(e \mid \neg C)} = ~~P(e \mid c) P(c) + P(~~$$
$$= P(e \mid \neg C \wedge B)) \, P(B) + P(e \mid \neg C \wedge \neg B)) \, P(\neg B)$$
$$k y ~~(1-y)~~ + k(1-y)$$

$$\varepsilon = k.$$

We require $P(e \mid \neg C) = P(e \mid \neg C \wedge B) \, P(B)$
$+ P(e \mid \neg C \wedge \neg B) \, P(\neg B)$

So we need $P(e \mid \neg C \wedge \neg B) = k$.

Now what about $P(e/C \text{ or } b)$

$$= \frac{P(c \text{ or } b/e)\, P(e)}{P(c \text{ or } b)}$$

$$P(c \text{ or } b|e) = P(C|e) + P(B|e)\ a\ P(B \& C|e)\}.$$

---

write $\dfrac{1}{AB + \varepsilon(1-AB)} = r$

$$\varepsilon(1-AB) = 1/r - AB$$

$$\varepsilon = \frac{1 - rAB}{r(1-AB)}$$

~~Ot~~ 9M 1

X XX

$P(A \vee B) = P($[illegible]
$+ P($[illegible]

$P(A|B \wedge h) + P(A|\neg B \wedge h)$
$= P(A|h)$

$\overset{R}{P(A|h)} = P(A/\overset{R}{B \wedge h})\, P(B/h)$
$+ P(A|\overset{R}{\neg B \wedge h})\, P(\neg B|h)$

$P(A|\neg B \wedge h) = R.$

$R \qquad \hookrightarrow \qquad R($

$\underline{P(H|E)}$

$P(E) = x + (\ldots - \ldots)x.$

$x + E(1, x)$

$\underline{x \leq E \leq}$

$x \leq 1$

Transparencies

Fig. 1. Scheme of Titles. of Sections

Fig 2. Eqs. (1) and (2) and (3), Bayes's formula

Fig 3. { Enhancement ratio, eq. (5)

multiple predictions eqs (6) & (7) P_n $P(e_{n+1})$

Fig 3a. simple model for E, Fig 3b True & false theories

Fig. 4. P_n & $P(e_{n+1})$ v. n.

Fig. 5. Dorling extension of Bayes theorem

Fig 6. Dorling on refutation

Fig 7. P_C & P_B v. sequence of predictions.

Fig 8. methodological decision

Fig 9. ~~(a)~~ Calculation of Λ_A & Λ_B (constraints)

Fig 10 Solution for Λ_A & Λ_B.

Fig 11 Formula for $P_C(n_1 \ldots n_u)$

Fig 12 P_C for varying model etc.